

C A S S I N I



*Enceladus - 2*

**MISSION DESCRIPTION**  
**JULY 2005**

Jet Propulsion Laboratory  
California Institute of Technology

PD 699-100, Rev O (supplement)  
JPL D-5564, Rev O (supplement)

## **OVERVIEW**

Enceladus is the sixth largest moon of Saturn and will be Cassini's ninth targeted encounter (following Phoebe, the first Enceladus flyby, and six Titan flybys) since arriving at Saturn on 1 July 2004. Enceladus is similar in size, shape, and location to Mimas, yet it's surface is very different. While Mimas shows an old cratered surface, Enceladus appears to be bright and smooth indicating recent resurfacing.

The second of four targeted flybys of Enceladus will occur on Thursday, 14 July 2005, at 19:55 SCET. Cassini will pass within 172 km of Enceladus with a speed of 8.2 km/s (18,343 miles per hour). Enceladus is a triaxial ellipsoid (512x494x490 km) and Cassini will pass at almost one-third of one Enceladus radii.

### **1.1           ABOUT ENCELADUS**

Enceladus was found by the Voyager spacecraft to be one of the most interesting objects in the Saturn system. Unlike the other icy satellites, the surface of Enceladus consists of entire regions that appear to be relatively crater-free. Enceladus is known from groundbased observations to be the brightest object in the solar system, with a geometric albedo of unity. Additionally, Enceladus orbits Saturn at the densest part of the E-ring, leading to suggestions that Enceladus itself is the source of the E-ring. These lines of evidence are suggestive of recent or current geologic activity on Enceladus. Such activity would be extremely unusual, because it would require internal heating; however, Enceladus is so small and icy that it is expected that any internal heat would have been lost long ago. Because Enceladus is so bright, it is the coldest of the Saturnian satellites - never warmer than 75K at noon. Enceladus displays at least five different types of terrain. Parts of the moon show craters no larger than 35 kilometers (about 22 miles) in diameter. Other areas show regions with no craters indicating major resurfacing events in the geologically recent past. There are fissures, plains, corrugated terrain and other crustal deformations. The key questions that will be addressed during this flyby are:

Why is Enceladus so bright?

Is Enceladus currently active? If it is, what is the energy source?

What is the relationship between Enceladus and the E-ring?

What is the satellite's dynamical history? Has its orbit been more eccentric in the past?

What is the source of grooved terrain? When were they formed (crater counts)? What are the main geological and geophysical processes?

What is the interior structure of Enceladus? What component other than water is there to account for the high density (~1.6)?

What is the source of the atmosphere?

What are the characteristics and geological history of Enceladus?

What are the different physical processes that created the surface of Enceladus?

What is the composition of the surface of Enceladus? Are ammonia and other volatiles present (ammonia decreases the melting point dramatically: it is the only reasonable way to create liquid in the interior)? Are there any identifiable opaque materials (minerals, organics)? How are surface materials such as dark, organic-rich material and condensed ice distributed?

What is the bulk composition and internal structure of Enceladus?

How does Enceladus interact with Saturn's magnetosphere and ring system?

## **1.2 ENCELADUS-2 SCIENCE ACTIVITIES**

CAPS will study the composition of the exosphere and surface of Enceladus. CAPS will examine the structure of upstream and wake regions.

CDA will obtain information on the chemical composition of Enceladus from the analysis of ejecta particles. CDA will investigate interactions with the ring system and determine the role of Enceladus as a source for ring particles.

CIRS will map the thermal characteristics and the composition of the surface of Enceladus. CIRS will determine subsurface regolith structure.

INMS will measure the positive ion and neutral environments of Enceladus.

ISS will map the surface of Enceladus to study its geological history. ISS will study the nature and composition of surface materials. ISS will determine the rotation state of the satellite.

MAPS will examine the particle environment around Enceladus to determine the nature of material coming off its surface. MAPS will investigate the relationships between Enceladus and the E-ring, and between Enceladus and its immediate magnetospheric particle environment.

MIMI will examine the modification of the surface and atmosphere of Enceladus through plasma and radiation bombardment. MIMI will characterize the absorption of energetic ions and electrons by Enceladus in order to investigate interaction with the Saturnian magnetosphere.

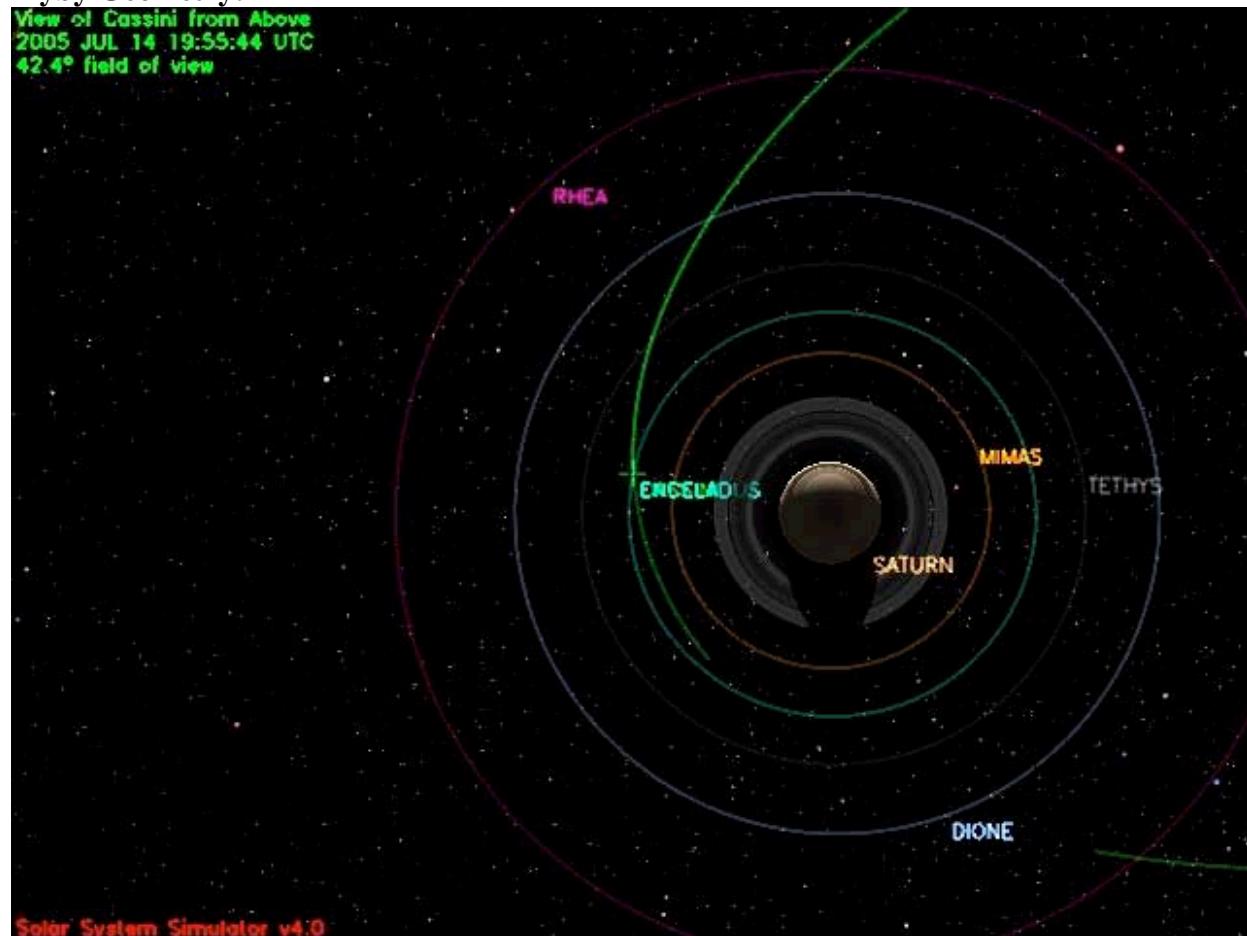
RADAR scatterometry of the surface will determine roughness at cm scales. Radiometry will probe the energy balance of Enceladus. RADAR will listen for radio waves that Enceladus may be producing.

RSS will improve estimates of the mass and ephemerides of Enceladus.

UVIS will study the surface ices and tenuous atmosphere associated with Enceladus.

VIMS will investigate the characteristics of Enceladus, such as its composition, geologic history, and interior structure. VIMS will identify the chemical composition of the surface and atmosphere of Enceladus by measuring colors of visible light and infrared energy given off by them. VIMS will define the physical processes that have led to this situation, as well as study the dark, organic-rich material.

#### Flyby Geometry:



## Cassini Enceladus-11 Timeline - July 2005

Colors: yellow = maneuvers; blue = geometry; pink = 011EN-related; light green=Rhea + Epimetheus science; green = data playbacks; lavender=Saturn+rings science

Orbiter UTC	Ground UTC	Pacific Time	Time wrt 011EN	Activity	Description
169T01:34:00	Jun 18 02:58	Fri Jun 17 06:58 PM	EN-26d18h	Start of Sequence S12	Start of Sequence which contains Enceladus-11.
189T14:37:00	Jul 08 16:01	Fri Jul 08 08:01 AM	EN-06d05h	OTM #25 Prime	Enceladus-11 approach targeting maneuver
190T14:37:00	Jul 09 16:01	Sat Jul 09 08:01 AM	EN-05d05h	OTM #25 Backup	
193T23:30:00	Jul 13 00:54	Tue Jul 12 04:54 PM	EN-01d20h	Start of the SOST Segment	
194T00:00:00	Jul 13 01:24	Tue Jul 12 05:24 PM	EN-01d20h	turn cameras to rings	Rings observations
194T13:00:00	Jul 13 14:24	Wed Jul 13 06:24 AM	EN-01d07h	turn cameras to Saturn	Saturn observations
194T19:54:00	Jul 13 21:18	Wed Jul 13 01:18 PM	EN-01d00h	Playback of rings + Saturn Data	Goldstone 70M
195T00:44:00	Jul 14 02:08	Wed Jul 13 06:08 PM	EN-19h11m	turn cameras to Rhea	
195T01:10:00	Jul 14 02:34	Wed Jul 13 06:34 PM	EN-18h45m	Rhea observations begin	imaging and spectroscopy; range ~250,000 km
195T08:00:00	Jul 14 09:24	Thu Jul 14 01:24 AM	EN-11h55m	Rhea RADAR observation	
195T10:00:00	Jul 14 11:24	Thu Jul 14 03:24 AM	EN-09h55m	Rhea observations continue	imaging and spectroscopy; range ~180,000 km
195T11:50:00	Jul 14 13:14	Thu Jul 14 05:14 AM	EN-08h05m	turn cameras to Enceladus	
195T12:23:00	Jul 14 13:47	Thu Jul 14 05:47 AM	EN-07h32m	Deadtime	1.5 minutes long; used to accommodate changes in flyby time
195T12:24:22	Jul 14 13:48	Thu Jul 14 05:48 AM	EN-07h31m	Enceladus scan	Temperature and composition map
195T13:39:22	Jul 14 15:03	Thu Jul 14 07:03 AM	EN-06h16m	Enceladus global imaging	
195T13:54:22	Jul 14 15:18	Thu Jul 14 07:18 AM	EN-06h01m	Enceladus scan	Temperature and composition map
195T14:54:22	Jul 14 16:18	Thu Jul 14 08:18 AM	EN-05h01m	Enceladus global color imaging	
195T15:24:22	Jul 14 16:48	Thu Jul 14 08:48 AM	EN-04h31m	Enceladus scan	Temperature and composition map
195T16:14:22	Jul 14 17:38	Thu Jul 14 09:38 AM	EN-03h41m	Enceladus global color imaging	
195T16:39:22	Jul 14 18:03	Thu Jul 14 10:03 AM	EN-03h16m	Enceladus high res scan	Temperature and composition map
195T17:34:22	Jul 14 18:58	Thu Jul 14 10:58 AM	EN-02h21m	Enceladus mosaics	
195T18:14:22	Jul 14 19:38	Thu Jul 14 11:38 AM	EN-01h41m	Enceladus fast scans	Temperature and composition mapping
195T18:34:22	Jul 14 19:58	Thu Jul 14 11:58 AM	EN-01h21m	Enceladus high res mosaics	high resolution imaging
195T19:34:22	Jul 14 20:58	Thu Jul 14 12:58 PM	EN-00h21m	turn to star	Bellatrix is occulted by Enceladus
195T19:51:52	Jul 14 21:15	Thu Jul 14 01:15 PM	EN-00h04m	Enceladus UV stellar occultation	atmospheric search
195T19:55:05	Jul 14 21:19	Thu Jul 14 01:19 PM	EN+00h00m	Enceladus-11 Flyby Closest Approach Time	Altitude = 169.4 km (105.3 miles), speed = 8.2 km/s (18,280 mph); low phase inbound, 53.4 deg phase at closest approach, high phase outbound
195T19:58:00	Jul 14 21:22	Thu Jul 14 01:22 PM	EN+00h03m	turn back to Enceladus	
195T19:58:00	Jul 14 21:22	Thu Jul 14 01:22 PM	EN+00h03m	Ascending Ring Plane Crossing	
195T20:26:30	Jul 14 21:50	Thu Jul 14 01:50 PM	EN+00h31m	Enceladus night-side scan	Outbound nighttime temperature mapping
195T21:19:22	Jul 14 22:43	Thu Jul 14 02:43 PM	EN+01h24m	Enceladus crescent imaging	Outbound
195T21:29:22	Jul 14 22:53	Thu Jul 14 02:53 PM	EN+01h34m	Enceladus high phase UV imaging	Outbound
195T21:49:22	Jul 14 23:13	Thu Jul 14 03:13 PM	EN+01h54m	Epimetheus imaging	range ~ 84,000 km
195T22:12:00	Jul 14 23:36	Thu Jul 14 03:36 PM	EN+02h17m	Periapsis	
195T22:36:22	Jul 15 00:00	Thu Jul 14 04:00 PM	EN+02h41m	UV Stellar and Solar Ring Occultations	
196T02:03:22	Jul 15 03:27	Thu Jul 14 07:27 PM	EN+06h08m	VIMS High Phase Rings Observation	
196T03:20:22	Jul 15 04:44	Thu Jul 14 08:44 PM	EN+07h25m	turn to Earth	
196T03:46:22	Jul 15 05:10	Thu Jul 14 09:10 PM	EN+07h51m	Radio Science Rings and Saturn occultations	
196T06:40:00	Jul 15 08:04	Fri Jul 15 12:04 AM	EN+10h45m	Deadtime	10 minutes long; used to accommodate changes in flyby time
196T06:50:00	Jul 15 08:14	Fri Jul 15 12:14 AM	EN+10h55m	Short Downlink	Madrid 70M
196T09:40	Jul 15 11:04	Fri Jul 15 03:04 AM	EN+13h45m	Turn to Saturn	
196T10:00:00	Jul 15 11:24	Fri Jul 15 03:24 AM	EN+14h05m	Saturn observations	lightening, etc.
196T14:10:00	Jul 15 15:34	Fri Jul 15 07:34 AM	EN+18h15m	turn to Earth	
196T14:30:00	Jul 15 15:54	Fri Jul 15 07:54 AM	EN+18h35m	Begin Playback of Enceladus Data	Goldstone 70M
196T23:30:00	Jul 16 00:54	Fri Jul 15 04:54 PM	EN+01d04h	End Playback of Enceladus Data	

OWLT (mins)	84
C/A Time	Thu Jul 14 01:19 PM

Tour Data Generator, Version 20030113, written by John Smith JPL. File Creation Date (YYMMDD.HHMMSS): 50705.155502

DUT = ET - UTC, (sec) = 64.18523, ET Julian Date of Epoch J2000 = 2451545.0

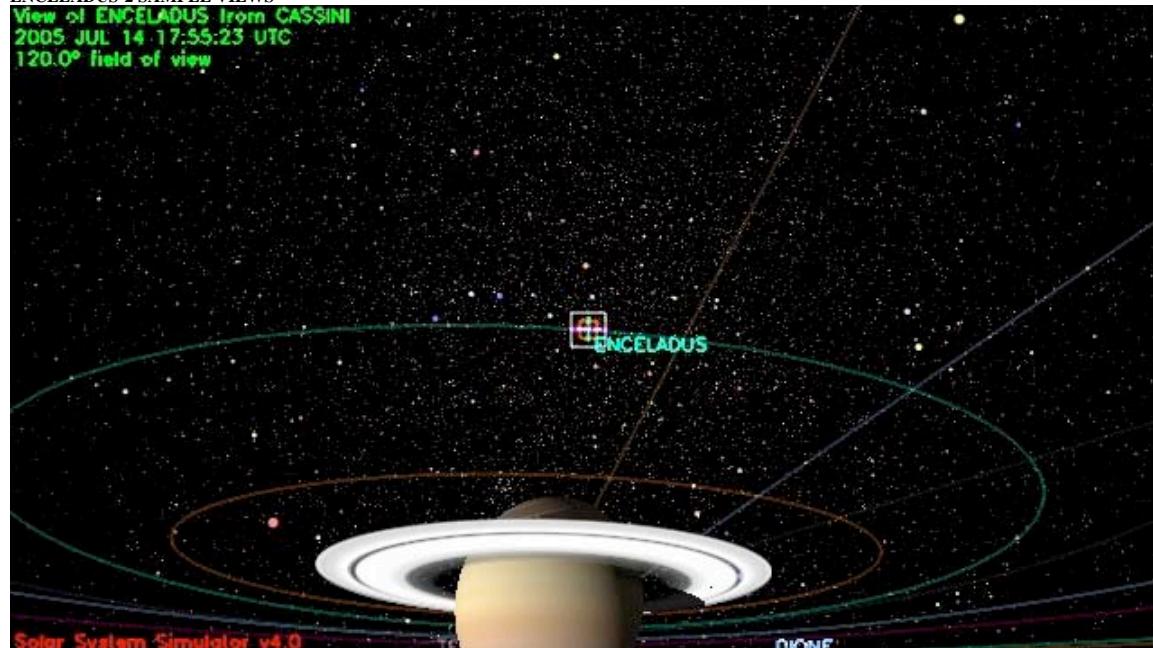
**Event Name: 11EN, Targeted\_Enceladus, Central Body: Enceladus**

050505 Reference Trajectory, Altitude Based on Fixed Body Radius of 253 km

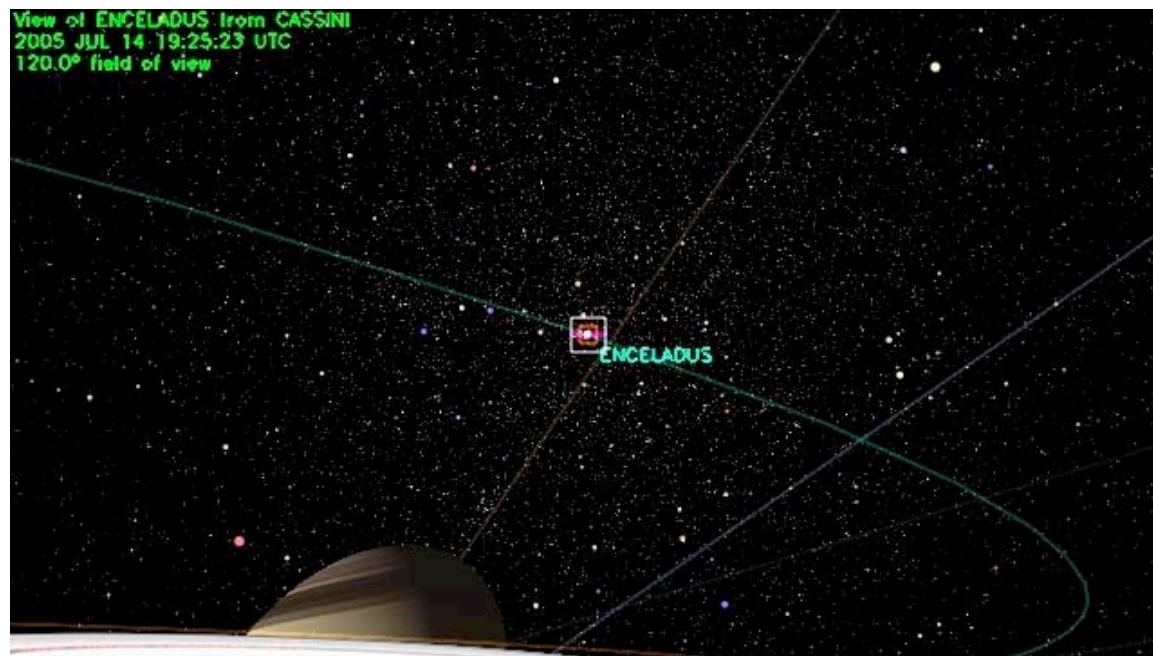
Event Name at Event Time Only	SCET Date (YYYY-DOYTHH:MM:SS.FF) UTC	Hours wrt Event Epoch	Minutes wrt Event Epoch	S/C Range (km)	S/C Altitude (km)	S/C North Latitude (deg)	S/C West Longitude SMEQPM Date (deg)	S/C Inertial Velocity (km/s)	S/C Radial Inertial Velocity (km/s)	S/C Tangential Inertial Velocity (km/s)	Central Body Angular Diameter (mrad)	Phase = Sun-Central_Body -S/C Angle (deg)	Sun-S/C-Central_Body Angle (deg)	S/C Local True Solar Time wrt Central Body (hh:mm)	Sub-solar Latitude wrt Central Body (deg)	Sub-solar West Longitude wrt Central Body SMEQPM Date (deg)
2005-194T19:55:20.99	-24	-1440	1,087,356.0	1,087,103.0	-17.2	9.5	18.908	-7.861	17.197	0.5	15.5	164.5	10.56	-21.1	-6.4	
2005-194T23:55:20.99	-20	-1200	935,437.9	935,184.9	-17.9	38.9	20.752	-12.943	16.221	0.5	3.5	176.5	11.53	-21.1	37.4	
2005-195T01:55:20.99	-18	-1080	835,586.0	835,333.0	-18.7	53.3	20.877	-14.689	14.835	0.6	6.1	173.8	12.24	-21.1	59.3	
2005-195T03:55:20.99	-16	-960	725,526.4	725,273.4	-20.0	67.5	20.444	-15.766	13.015	0.7	12.9	167.1	12.54	-21.1	81.2	
2005-195T05:55:20.99	-14	-840	610,295.0	610,042.0	-21.8	81.7	19.464	-16.120	10.909	0.8	19.9	160.1	13.25	-21.1	103.1	
2005-195T07:55:20.99	-12	-720	495,156.9	494,903.9	-24.2	96.1	17.980	-15.744	8.684	1.0	26.8	153.2	13.55	-21.1	125.0	
2005-195T09:55:20.99	-10	-600	385,219.6	384,966.6	-27.4	110.9	16.070	-14.690	6.516	1.3	33.3	146.7	14.23	-21.1	146.9	
2005-195T11:55:20.99	-8	-480	284,926.0	284,673.0	-31.6	126.6	13.870	-13.096	4.568	1.8	38.9	141.1	14.48	-21.1	168.8	
2005-195T13:55:20.99	-6	-360	197,330.2	197,077.2	-36.6	143.9	11.596	-11.219	2.936	2.6	43.3	136.7	15.07	-21.1	-169.3	
2005-195T14:55:20.99	-5	-300	158,618.9	158,365.9	-39.4	153.3	10.538	-10.298	2.235	3.2	44.9	135.1	15.13	-21.1	-158.4	
2005-195T15:55:20.99	-4	-240	123,062.0	122,809.0	-42.1	163.5	9.611	-9.478	1.596	4.2	46.0	134.0	15.16	-21.1	-147.4	
2005-195T16:55:20.99	-3	-180	90,175.4	89,922.4	-44.6	174.4	8.885	-8.826	1.021	5.7	46.5	133.4	15.16	-21.1	-136.5	
2005-195T17:55:20.99	-2	-120	59,247.7	58,994.7	-46.7	-174.0	8.413	-8.396	0.539	8.7	46.7	133.3	15.13	-21.1	-125.5	
2005-195T18:55:20.99	-1	-60	29,442.5	29,189.5	-48.2	-161.8	8.202	-8.198	0.243	17.4	46.3	133.7	15.08	-21.1	-114.6	
2005-195T19:25:20.99	-1	-30	14,717.4	14,464.4	-48.9	-155.1	8.172	-8.168	0.266	34.8	45.8	134.2	15.03	-21.1	-109.1	
2005-195T19:40:20.99	0	-15	7,370.9	7,117.9	-49.9	-150.1	8.169	-8.155	0.476	69.6	44.8	135.2	14.54	-21.1	-106.4	
2005-195T19:50:20.99	0	-5	2,493.6	2,240.6	-53.0	-139.1	8.169	-8.051	1.385	205.9	41.4	138.6	14.18	-21.1	-104.6	
E2_11EN	2005-195T19:55:20.99	0	0	422.4	169.4	-23.2	-34.6	8.172	-0.129	8.170	1304.2	63.4	116.6	07.23	-21.1	-103.7
2005-195T20:00:20.99	0	5	2,480.7	2,227.7	42.0	18.6	8.170	8.051	1.390	207.0	127.0	53.0	03.54	-21.1	-102.7	
2005-195T20:10:20.99	0	15	7,359.1	7,106.1	46.1	27.3	8.171	8.158	0.460	69.7	131.3	48.7	03.27	-21.1	-100.9	
2005-195T20:25:20.99	1	30	14,707.1	14,454.1	47.1	31.9	8.169	8.167	0.200	34.9	132.2	47.8	03.19	-21.1	-98.2	
2005-195T20:55:20.99	1	60	29,394.5	29,141.5	47.3	37.9	8.145	8.145	0.034	17.4	132.6	47.4	03.17	-21.1	-92.7	
2005-195T21:55:20.99	2	120	58,386.8	58,133.8	46.6	47.9	7.921	7.909	0.447	8.8	132.1	47.9	03.21	-21.1	-81.8	
2005-195T22:55:20.99	3	180	85,880.9	85,627.9	45.4	56.6	7.349	7.298	0.863	6.0	130.9	49.1	03.30	-21.1	-70.8	
2005-195T23:55:20.99	4	240	110,487.9	110,234.9	44.3	65.1	6.411	6.322	1.065	4.6	129.3	50.7	03.40	-21.1	-59.9	
2005-196T00:55:20.99	5	300	131,151.6	130,898.6	43.4	74.0	5.222	5.142	0.908	3.9	128.0	52.0	03.48	-21.1	-48.9	
2005-196T01:55:20.99	6	360	147,532.0	147,279.0	42.8	83.9	4.002	3.978	0.440	3.5	127.3	52.7	03.52	-21.1	-38.0	
2005-196T03:55:20.99	8	480	169,853.7	169,600.7	41.8	108.3	3.156	2.487	1.942	3.0	129.2	50.8	03.42	-21.1	-16.1	
2005-196T05:55:20.99	10	600	188,536.1	188,283.1	39.3	139.5	5.515	3.129	4.541	2.7	136.6	43.4	03.05	-21.1	5.8	
2005-196T07:55:20.99	12	720	220,811.8	220,558.8	33.3	173.0	8.679	6.159	6.115	2.3	147.0	33.0	02.18	-21.1	27.7	
2005-196T09:55:20.99	14	840	279,581.1	279,328.1	25.5	-157.5	11.769	10.170	5.922	1.8	154.8	25.2	01.48	-21.1	49.6	
2005-196T11:55:20.99	16	960	365,778.2	365,525.2	18.7	-133.4	14.549	13.605	5.154	1.4	156.5	23.5	01.39	-21.1	71.5	
2005-196T13:55:20.99	18	1080	472,767.0	472,514.0	13.9	-113.1	16.898	15.919	5.666	1.1	153.8	26.2	01.45	-21.1	93.3	
2005-196T15:55:20.99	20	1200	592,279.4	592,026.4	10.5	-95.1	18.735	17.095	7.665	0.9	149.0	31.0	02.01	-21.1	115.2	
2005-196T19:55:20.99	24	1440	837,847.4	837,594.4	6.5	-62.4	20.670	16.370	12.620	0.6	137.4	42.5	02.45	-21.1	159.0	

ENCELADUS-2 SAMPLE VIEWS

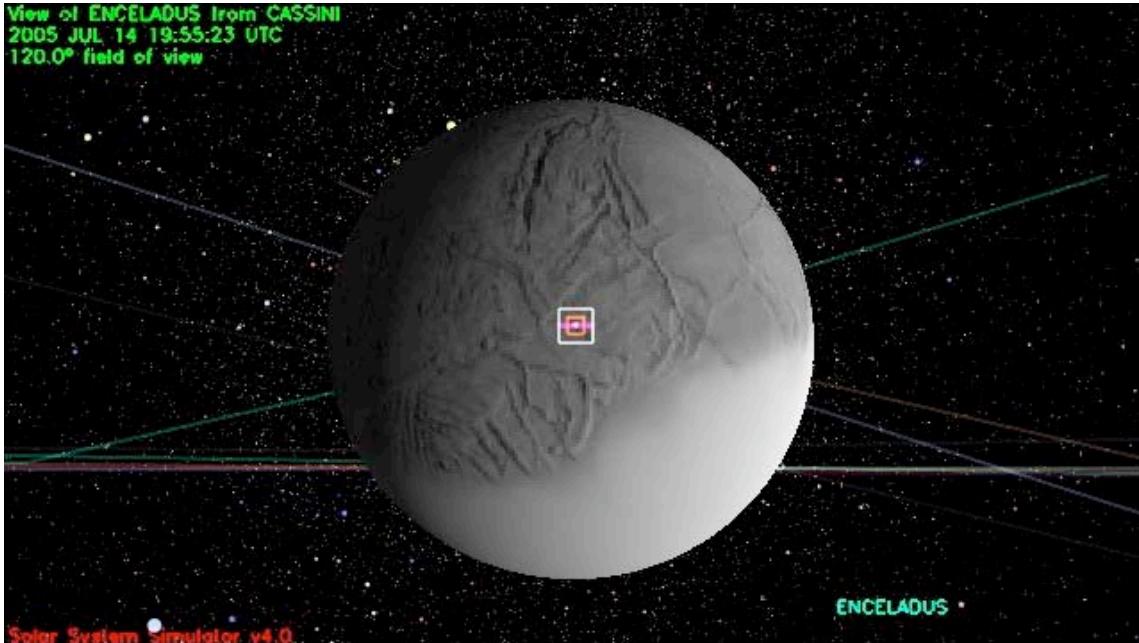
View of ENCELADUS from CASSINI  
2005 JUL 14 17:55:23 UTC  
120.0° field of view



View of ENCELADUS from CASSINI  
2005 JUL 14 19:25:23 UTC  
120.0° field of view

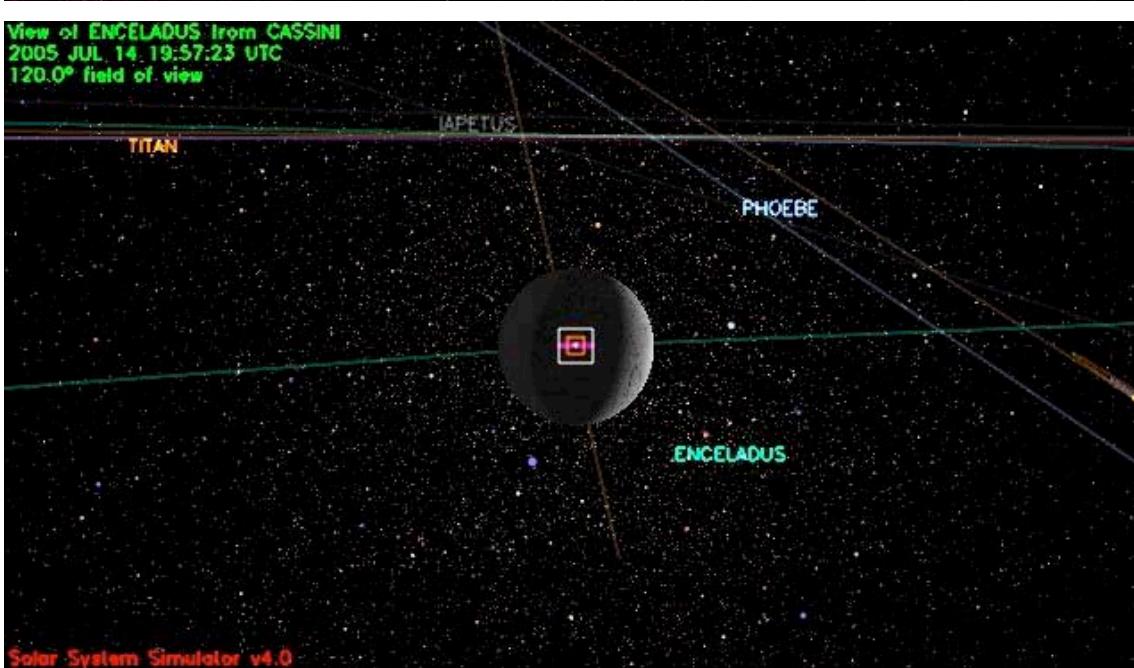


View of ENCELADUS from CASSINI  
2005 JUL 14 19:55:23 UTC  
120.0° field of view



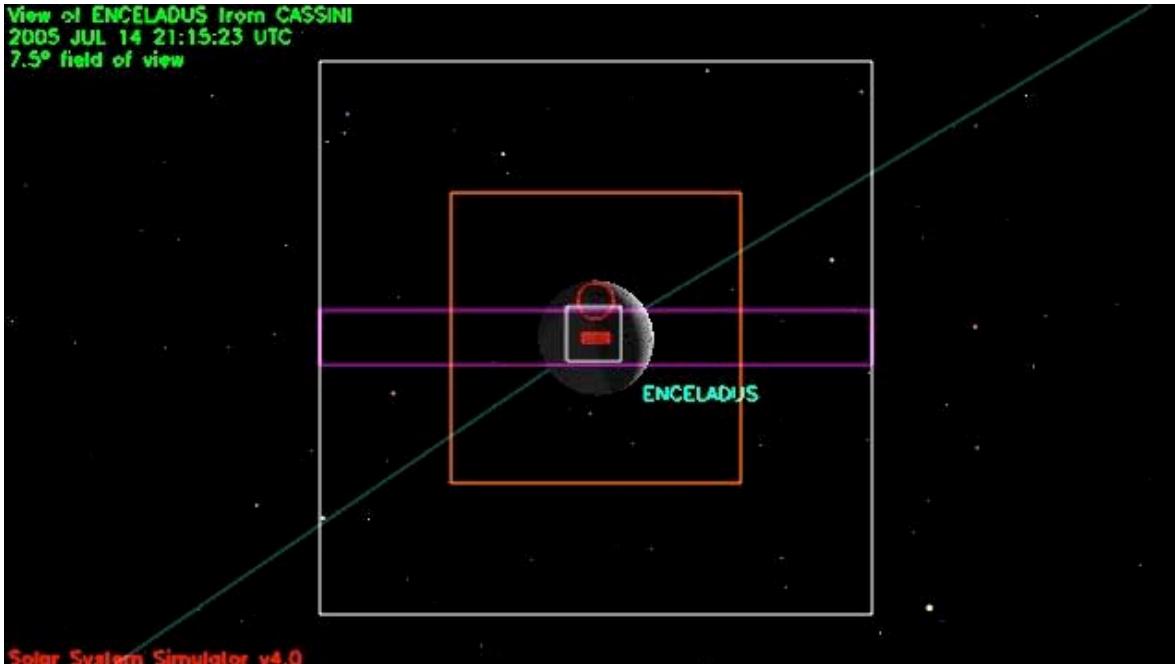
Solar System Simulator v4.0

View of ENCELADUS from CASSINI  
2005 JUL 14 19:57:23 UTC  
120.0° field of view



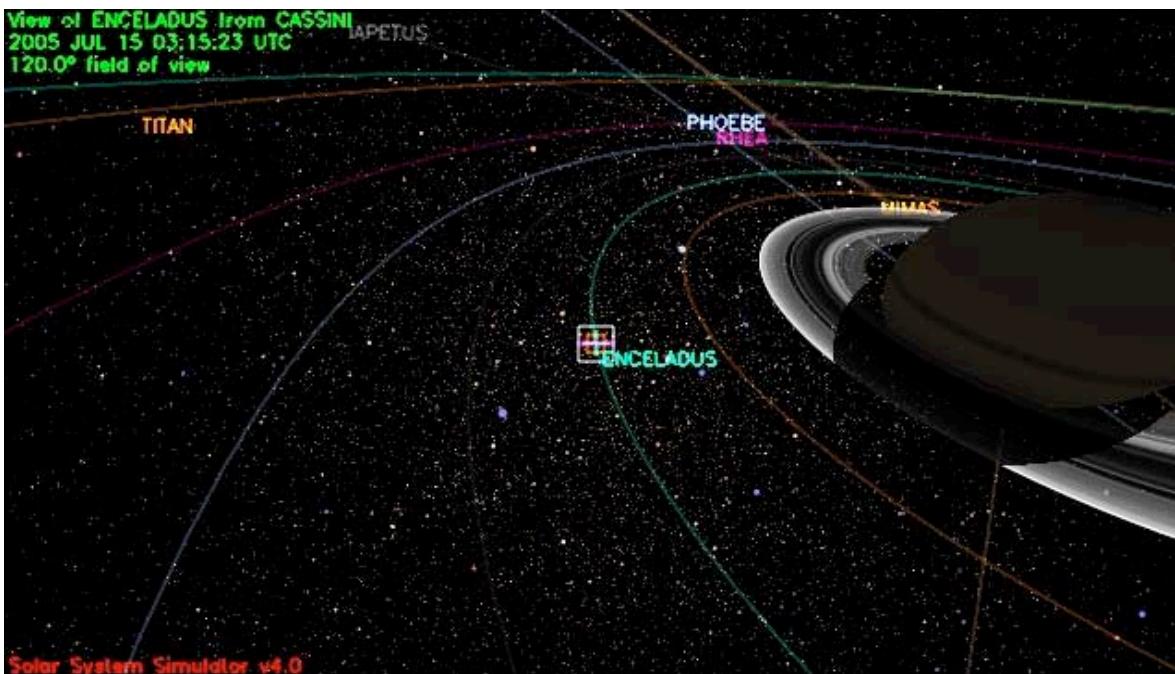
Solar System Simulator v4.0

View of ENCELADUS from CASSINI  
2005 JUL 14 21:15:23 UTC  
7.5° field of view



Solar System Simulator v4.0

View of ENCELADUS from CASSINI  
2005 JUL 15 03:15:23 UTC  
120.0° field of view



Solar System Simulator v4.0

## Enceladus 2 Playback Timeline

Created July 5, 2005

Event or Observation	Observation Type (APGEN)	Observation Record Start Time (yyyy-dddThh:mm:ss) (SCET)	Record Start Time - Reference Epoch (ddThh:mm)	Start Playback (Ground UTC)		Start Playback (Pacific Time)	
				Best Estimate	Latest Possible	Best Estimate	Latest Possible
CAPS_010SA_SURVEY006_RIDER	CAPS_16000	2005-169T01:34:00	-26T18:21	18-Jun Sat 05:08 PM	Sat 05:12 PM	18-Jun Sat 10:08 AM	Sat 10:12 AM
CIRS_011RH_GLOCOL001_ISS	CIRS_4000	2005-195T01:10:00	-00T18:45	15-Jul Fri 08:20 AM	Fri 08:23 AM	15-Jul Fri 01:20 AM	Fri 01:23 AM
ISS_011RH_GLOCOL001_PRIME	ISS_Phot_1_by_1	2005-195T01:10:00	-00T18:45	15-Jul Fri 08:20 AM	Fri 08:23 AM	15-Jul Fri 01:20 AM	Fri 01:23 AM
UVIS_011RH_ICYLON001_ISS	UVIS_5032	2005-195T01:10:00	-00T18:45	15-Jul Fri 08:20 AM	Fri 08:23 AM	15-Jul Fri 01:20 AM	Fri 01:23 AM
CIRS_011RH_REGGEODA001_ISS	CIRS_4000	2005-195T01:40:00	-00T18:14	15-Jul Fri 08:44 AM	Fri 08:49 AM	15-Jul Fri 01:44 AM	Fri 01:49 AM
CIRS_011RH_ICYLON018_UVIS	CIRS_4000	2005-195T01:50:00	-00T18:04	15-Jul Fri 08:51 AM	Fri 08:57 AM	15-Jul Fri 01:51 AM	Fri 01:57 AM
UVIS_011RH_ICYLON002_PRIME	UVIS_5032	2005-195T01:50:00	-00T18:04	15-Jul Fri 08:51 AM	Fri 08:57 AM	15-Jul Fri 01:51 AM	Fri 01:57 AM
CIRS_011RH_RHEA003_VIMS	CIRS_4000	2005-195T02:14:00	-00T17:40	15-Jul Fri 08:54 AM	Fri 09:00 AM	15-Jul Fri 01:54 AM	Fri 02:00 AM
UVIS_011RH_ICYLON003_VIMS	UVIS_5032	2005-195T02:14:00	-00T17:40	15-Jul Fri 08:54 AM	Fri 09:00 AM	15-Jul Fri 01:54 AM	Fri 02:00 AM
VIMS_011RH_RHEA003_PRIME	VIMS_18432	2005-195T02:14:00	-00T17:40	15-Jul Fri 08:54 AM	Fri 09:00 AM	15-Jul Fri 01:54 AM	Fri 02:00 AM
CIRS_011RH_REGGEODB001_ISS	CIRS_4000	2005-195T04:00:00	-00T15:55	15-Jul Fri 09:09 AM	Fri 09:20 AM	15-Jul Fri 02:09 AM	Fri 02:20 AM
ISS_011RH_REGGEODB001_PRIME	ISS_Phot_1_by_1	2005-195T04:00:00	-00T15:55	15-Jul Fri 09:09 AM	Fri 09:20 AM	15-Jul Fri 02:09 AM	Fri 02:20 AM
UVIS_011RH_ICYLON004_ISS	UVIS_5032	2005-195T04:00:00	-00T15:55	15-Jul Fri 09:09 AM	Fri 09:20 AM	15-Jul Fri 02:09 AM	Fri 02:20 AM
CIRS_011RH_FP3REGION020_PRIME	CIRS_4000	2005-195T04:10:00	-00T15:45	15-Jul Fri 09:11 AM	Fri 09:23 AM	15-Jul Fri 02:11 AM	Fri 02:23 AM
UVIS_011RH_ICYLON005_CIRS	UVIS_5032	2005-195T04:10:00	-00T15:45	15-Jul Fri 09:11 AM	Fri 09:23 AM	15-Jul Fri 02:11 AM	Fri 02:23 AM
CIRS_011RH_RHEA001_VIMS	CIRS_4000	2005-195T05:10:00	-00T14:44	15-Jul Fri 09:18 AM	Fri 09:32 AM	15-Jul Fri 02:18 AM	Fri 02:32 AM
UVIS_011RH_ICYLON006_VIMS	UVIS_5032	2005-195T05:10:00	-00T14:44	15-Jul Fri 09:18 AM	Fri 09:32 AM	15-Jul Fri 02:18 AM	Fri 02:32 AM
VIMS_011RH_RHEA001_PRIME	VIMS_18432	2005-195T05:10:00	-00T14:44	15-Jul Fri 09:18 AM	Fri 09:32 AM	15-Jul Fri 02:18 AM	Fri 02:32 AM
CIRS_011RH_REGGEODC001_ISS	CIRS_4000	2005-195T05:50:00	-00T14:04	15-Jul Fri 09:25 AM	Fri 09:42 AM	15-Jul Fri 02:25 AM	Fri 02:42 AM
ISS_011RH_REGGEODC001_PRIME	ISS_Phot_1_by_1	2005-195T05:50:00	-00T14:04	15-Jul Fri 09:25 AM	Fri 09:42 AM	15-Jul Fri 02:25 AM	Fri 02:42 AM
UVIS_011RH_ICYLON007_ISS	UVIS_5032	2005-195T05:50:00	-00T14:04	15-Jul Fri 09:25 AM	Fri 09:42 AM	15-Jul Fri 02:25 AM	Fri 02:42 AM
CIRS_011RH_RHEA002_VIMS	CIRS_4000	2005-195T06:00:00	-00T13:54	15-Jul Fri 09:28 AM	Fri 09:46 AM	15-Jul Fri 02:28 AM	Fri 02:46 AM
UVIS_011RH_ICYLON008_VIMS	UVIS_5032	2005-195T06:00:00	-00T13:54	15-Jul Fri 09:28 AM	Fri 09:46 AM	15-Jul Fri 02:28 AM	Fri 02:46 AM
VIMS_011RH_RHEA002_PRIME	VIMS_18432	2005-195T06:00:00	-00T13:54	15-Jul Fri 09:28 AM	Fri 09:46 AM	15-Jul Fri 02:28 AM	Fri 02:46 AM
CIRS_011RH_REGGEODD001_ISS	CIRS_4000	2005-195T07:50:00	-00T12:04	15-Jul Fri 09:47 AM	Fri 10:15 AM	15-Jul Fri 02:47 AM	Fri 03:15 AM
ISS_011RH_REGGEODD001_PRIME	ISS_Phot_1_by_1	2005-195T07:50:00	-00T12:04	15-Jul Fri 09:47 AM	Fri 10:15 AM	15-Jul Fri 02:47 AM	Fri 03:15 AM
UVIS_011RH_ICYLON009_ISS	UVIS_5032	2005-195T07:50:00	-00T12:04	15-Jul Fri 09:47 AM	Fri 10:15 AM	15-Jul Fri 02:47 AM	Fri 03:15 AM
RADAR_011RH_SCATTRADL001_PRIME	RADAR_364800	2005-195T08:00:00	-00T11:54	15-Jul Fri 09:50 AM	Fri 10:17 AM	15-Jul Fri 02:50 AM	Fri 03:17 AM
MIMI_011CO_SURVEY002_MAPS	MIMI_8000	2005-195T08:01:00	-00T11:53	15-Jul Fri 09:50 AM	Fri 10:17 AM	15-Jul Fri 02:50 AM	Fri 03:17 AM
ISS_011RH_REGMAPE001_PRIME	ISS_Phot_1_by_1	2005-195T10:00:00	-00T09:55	15-Jul Fri 10:33 AM	Fri 10:59 AM	15-Jul Fri 03:33 AM	Fri 03:59 AM
UVIS_011RH_ICYLON010_ISS	UVIS_5032	2005-195T10:00:00	-00T09:55	15-Jul Fri 10:33 AM	Fri 10:59 AM	15-Jul Fri 03:33 AM	Fri 03:59 AM
CIRS_011RH_FP1DAYNIT020_PRIME	CIRS_4000	2005-195T10:10:00	-00T09:45	15-Jul Fri 10:38 AM	Fri 03:59 PM	15-Jul Fri 03:38 AM	Fri 08:59 AM
UVIS_011RH_ICYLON011_CIRS	UVIS_5032	2005-195T10:10:00	-00T09:45	15-Jul Fri 10:38 AM	Fri 03:59 PM	15-Jul Fri 03:38 AM	Fri 08:59 AM
CIRS_011RH_RHEA004_VIMS	CIRS_4000	2005-195T10:25:00	-00T09:29	15-Jul Fri 10:40 AM	Fri 04:02 PM	15-Jul Fri 03:40 AM	Fri 09:02 AM
UVIS_011RH_ICYLON012_VIMS	UVIS_5032	2005-195T10:25:00	-00T09:29	15-Jul Fri 10:40 AM	Fri 04:02 PM	15-Jul Fri 03:40 AM	Fri 09:02 AM
VIMS_011RH_RHEA004_PRIME	VIMS_18432	2005-195T10:25:00	-00T09:29	15-Jul Fri 10:40 AM	Fri 04:02 PM	15-Jul Fri 03:40 AM	Fri 09:02 AM
INMS_011SA_INMAGSURV001_RIDER	INMS_1498	2005-195T10:55:55	-00T08:59	15-Jul Fri 10:44 AM	Fri 04:09 PM	15-Jul Fri 03:44 AM	Fri 09:09 AM
CIRS_011RH_REGGEODF001_ISS	CIRS_4000	2005-195T11:20:00	-00T08:35	15-Jul Fri 10:47 AM	Fri 04:14 PM	15-Jul Fri 03:47 AM	Fri 09:14 AM
ISS_011RH_REGGEODF001_PRIME	ISS_Phot_1_by_1	2005-195T11:20:00	-00T08:35	15-Jul Fri 10:47 AM	Fri 04:14 PM	15-Jul Fri 03:47 AM	Fri 09:14 AM
UVIS_011RH_ICYLON013_ISS	UVIS_5032	2005-195T11:20:00	-00T08:35	15-Jul Fri 10:47 AM	Fri 04:14 PM	15-Jul Fri 03:47 AM	Fri 09:14 AM
CIRS_011RH_FP1GLOBAL020_PRIME	CIRS_4000	2005-195T11:30:00	-00T08:25	15-Jul Fri 10:49 AM	Fri 04:16 PM	15-Jul Fri 03:49 AM	Fri 09:16 AM
UVIS_011RH_ICYLON014_CIRS	UVIS_5032	2005-195T11:30:00	-00T08:25	15-Jul Fri 10:49 AM	Fri 04:16 PM	15-Jul Fri 03:49 AM	Fri 09:16 AM
CIRS_011EN_FP3MAP1001_PRIME	CIRS_4000	2005-195T12:24:22	-00T07:30	15-Jul Fri 10:53 AM	Fri 04:21 PM	15-Jul Fri 03:53 AM	Fri 09:21 AM
UVIS_011EN_ICYLON001_CIRS	UVIS_5032	2005-195T12:24:22	-00T07:30	15-Jul Fri 10:53 AM	Fri 04:21 PM	15-Jul Fri 03:53 AM	Fri 09:21 AM
VIMS_011EN_ENCELADUS136_CIRS	VIMS_18432	2005-195T12:24:22	-00T07:30	15-Jul Fri 10:53 AM	Fri 04:21 PM	15-Jul Fri 03:53 AM	Fri 09:21 AM
CIRS_011EN_N3CPOL002_ISS	CIRS_4000	2005-195T13:39:22	-00T06:15	15-Jul Fri 11:00 AM	Fri 04:32 PM	15-Jul Fri 04:00 AM	Fri 09:32 AM
ISS_011EN_N3CPOL002_PRIME	ISS_Phot_1_by_1	2005-195T13:39:22	-00T06:15	15-Jul Fri 11:00 AM	Fri 04:32 PM	15-Jul Fri 04:00 AM	Fri 09:32 AM
UVIS_011EN_ICYLON002_ISS	UVIS_5032	2005-195T13:39:22	-00T06:15	15-Jul Fri 11:00 AM	Fri 04:32 PM	15-Jul Fri 04:00 AM	Fri 09:32 AM
VIMS_011EN_ENCELADUS120_ISS	VIMS_18432	2005-195T13:39:22	-00T06:15	15-Jul Fri 11:00 AM	Fri 04:32 PM	15-Jul Fri 04:00 AM	Fri 09:32 AM
CIRS_011EN_FP3GLOBAL020_PRIME	CIRS_4000	2005-195T13:54:22	-00T06:00	15-Jul Fri 04:03 PM	Fri 04:42 PM	15-Jul Fri 09:03 AM	Fri 09:42 AM
UVIS_011EN_ICYLON003_CIRS	UVIS_5032	2005-195T13:54:22	-00T06:00	15-Jul Fri 04:03 PM	Fri 04:42 PM	15-Jul Fri 09:03 AM	Fri 09:42 AM
VIMS_011EN_ENCELADUS119_CIRS	VIMS_18432	2005-195T13:54:22	-00T06:00	15-Jul Fri 04:03 PM	Fri 04:42 PM	15-Jul Fri 09:03 AM	Fri 09:42 AM
CDA_011DR_0615SURIN007_RIDER	CDA_524	2005-195T13:55:11	-00T05:59	15-Jul Fri 04:03 PM	Fri 04:42 PM	15-Jul Fri 09:03 AM	Fri 09:42 AM
CDA_011DR_0508DUST052_RIDER	CDA_524	2005-195T14:40:49	-00T05:14	15-Jul Fri 04:08 PM	Fri 04:50 PM	15-Jul Fri 09:08 AM	Fri 09:50 AM

CIRS_011EN_N4COLR003_ISS	CIRS_4000	2005-195T14:54:22	-00T05:00	15-Jul Fri 04:10 PM	Fri 04:52 PM	15-Jul Fri 09:10 AM	Fri 09:52 AM
ISS_011EN_N4COLR003_PRIME	ISS_Phot_1_by_1	2005-195T14:54:22	-00T05:00	15-Jul Fri 04:10 PM	Fri 04:52 PM	15-Jul Fri 09:10 AM	Fri 09:52 AM
UVIS_011EN_ICYTHON04_ISS	UVIS_5032	2005-195T14:54:22	-00T05:00	15-Jul Fri 04:10 PM	Fri 04:52 PM	15-Jul Fri 09:10 AM	Fri 09:52 AM
VIMS_011EN_ENCELADUS121_ISS	VIMS_18432	2005-195T14:54:22	-00T05:00	15-Jul Fri 04:10 PM	Fri 04:52 PM	15-Jul Fri 09:10 AM	Fri 09:52 AM
CIRS_011EN_N3CPOL003_ISS	CIRS_4000	2005-195T15:09:22	-00T04:45	15-Jul Fri 04:14 PM	Fri 04:56 PM	15-Jul Fri 09:14 AM	Fri 09:56 AM
ISS_011EN_N3CPOL003_PRIME	ISS_Phot_1_by_1	2005-195T15:09:22	-00T04:45	15-Jul Fri 04:14 PM	Fri 04:56 PM	15-Jul Fri 09:14 AM	Fri 09:56 AM
UVIS_011EN_ICYTHON05_ISS	UVIS_5032	2005-195T15:09:22	-00T04:45	15-Jul Fri 04:14 PM	Fri 04:56 PM	15-Jul Fri 09:14 AM	Fri 09:56 AM
CIRS_011EN_FP3REGION021_PRIME	CIRS_4000	2005-195T15:24:22	-00T04:30	15-Jul Fri 04:22 PM	Fri 05:04 PM	15-Jul Fri 09:22 AM	Fri 10:04 AM
UVIS_011EN_ICYTHON06_CIRS	UVIS_5032	2005-195T15:24:22	-00T04:30	15-Jul Fri 04:22 PM	Fri 05:04 PM	15-Jul Fri 09:22 AM	Fri 10:04 AM
VIMS_011EN_ENCELADUS122_CIRS	VIMS_18432	2005-195T15:24:22	-00T04:30	15-Jul Fri 04:22 PM	Fri 05:04 PM	15-Jul Fri 09:22 AM	Fri 10:04 AM
CIRS_011EN_N4COLR004_ISS	CIRS_4000	2005-195T16:14:22	-00T03:40	15-Jul Fri 04:27 PM	Fri 05:11 PM	15-Jul Fri 09:27 AM	Fri 10:11 AM
ISS_011EN_N4COLR004_PRIME	ISS_Phot_1_by_1	2005-195T16:14:22	-00T03:40	15-Jul Fri 04:27 PM	Fri 05:11 PM	15-Jul Fri 09:27 AM	Fri 10:11 AM
UVIS_011EN_ICYTHON07_ISS	UVIS_5032	2005-195T16:14:22	-00T03:40	15-Jul Fri 04:27 PM	Fri 05:11 PM	15-Jul Fri 09:27 AM	Fri 10:11 AM
VIMS_011EN_ENCELADUS123_ISS	VIMS_18432	2005-195T16:14:22	-00T03:40	15-Jul Fri 04:27 PM	Fri 05:11 PM	15-Jul Fri 09:27 AM	Fri 10:11 AM
CIRS_011EN_N3CPOL004_ISS	CIRS_4000	2005-195T16:24:22	-00T03:30	15-Jul Fri 04:31 PM	Fri 05:15 PM	15-Jul Fri 09:31 AM	Fri 10:15 AM
ISS_011EN_N3CPOL004_PRIME	ISS_Phot_1_by_1	2005-195T16:24:22	-00T03:30	15-Jul Fri 04:31 PM	Fri 05:15 PM	15-Jul Fri 09:31 AM	Fri 10:15 AM
UVIS_011EN_ICYTHON08_ISS	UVIS_5032	2005-195T16:24:22	-00T03:30	15-Jul Fri 04:31 PM	Fri 05:15 PM	15-Jul Fri 09:31 AM	Fri 10:15 AM
CIRS_011EN_FP3REGION020_PRIME	CIRS_4000	2005-195T16:39:22	-00T03:15	15-Jul Fri 04:39 PM	Fri 05:23 PM	15-Jul Fri 09:39 AM	Fri 10:23 AM
UVIS_011EN_ICYTHON09_CIRS	UVIS_5032	2005-195T16:39:22	-00T03:15	15-Jul Fri 04:39 PM	Fri 05:23 PM	15-Jul Fri 09:39 AM	Fri 10:23 AM
VIMS_011EN_ENCELADUS124_CIRS	VIMS_18432	2005-195T16:39:22	-00T03:15	15-Jul Fri 04:39 PM	Fri 05:23 PM	15-Jul Fri 09:39 AM	Fri 10:23 AM
CIRS_011EN_NGNP0L001_ISS	CIRS_4000	2005-195T17:34:22	-00T02:20	15-Jul Fri 04:47 PM	Fri 05:32 PM	15-Jul Fri 09:47 AM	Fri 10:32 AM
ISS_011EN_NGNP0L001_PRIME	ISS_Phot_1_by_1	2005-195T17:34:22	-00T02:20	15-Jul Fri 04:47 PM	Fri 05:32 PM	15-Jul Fri 09:47 AM	Fri 10:32 AM
UVIS_011EN_ICYTHON10_ISS	UVIS_5032	2005-195T17:34:22	-00T02:20	15-Jul Fri 04:47 PM	Fri 05:32 PM	15-Jul Fri 09:47 AM	Fri 10:32 AM
VIMS_011EN_ENCELADUS125_ISS	VIMS_18432	2005-195T17:34:22	-00T02:20	15-Jul Fri 04:47 PM	Fri 05:32 PM	15-Jul Fri 09:47 AM	Fri 10:32 AM
CIRS_011EN_N3COL001_ISS	CIRS_4000	2005-195T17:54:22	-00T02:00	15-Jul Fri 04:57 PM	Fri 05:43 PM	15-Jul Fri 09:57 AM	Fri 10:43 AM
ISS_011EN_N3COL001_PRIME	ISS_Phot_1_by_1	2005-195T17:54:22	-00T02:00	15-Jul Fri 04:57 PM	Fri 05:43 PM	15-Jul Fri 09:57 AM	Fri 10:43 AM
UVIS_011EN_ICYMAP011_ISS	UVIS_32096	2005-195T17:54:22	-00T02:00	15-Jul Fri 04:57 PM	Fri 05:43 PM	15-Jul Fri 09:57 AM	Fri 10:43 AM
MAG_011EN_ENTAR001_RIDER	MAG_1976	2005-195T17:55:22	-00T01:59	15-Jul Fri 04:58 PM	Fri 05:44 PM	15-Jul Fri 09:58 AM	Fri 10:44 AM
CIRS_011EN_FP1GLOBAL020_PRIME	CIRS_4000	2005-195T18:14:22	-00T01:40	15-Jul Fri 05:11 PM	Fri 05:59 PM	15-Jul Fri 10:11 AM	Fri 10:59 AM
UVIS_011EN_ICYMAP12_CIRS	UVIS_32096	2005-195T18:14:22	-00T01:40	15-Jul Fri 05:11 PM	Fri 05:59 PM	15-Jul Fri 10:11 AM	Fri 10:59 AM
VIMS_011EN_ENCELADUS126_CIRS	VIMS_18432	2005-195T18:14:22	-00T01:40	15-Jul Fri 05:11 PM	Fri 05:59 PM	15-Jul Fri 10:11 AM	Fri 10:59 AM
CDA_011RE_0407ERNGM005_RIDER	CDA_524	2005-195T18:14:25	-00T01:40	15-Jul Fri 05:11 PM	Fri 05:59 PM	15-Jul Fri 10:11 AM	Fri 10:59 AM
CDA_011DR_0400DUST060_RIDER	CDA_524	2005-195T18:25:28	-00T01:29	15-Jul Fri 05:14 PM	Fri 06:05 PM	15-Jul Fri 10:14 AM	Fri 11:05 AM
1WAY_TO_2WAY_GAP_G70METNON196		P/B GAP		~5 min. Playback Gap		n/a	
						Fri 06:51 PM	
						Fri 11:51 AM	
CIRS_011EN_REGEO002_ISS	CIRS_4000	2005-195T18:34:22	-00T01:20	15-Jul Fri 05:17 PM	Fri 07:39 PM	15-Jul Fri 10:17 AM	Fri 12:39 PM
ISS_011EN_REGEO002_PRIME	ISS_Phot_1_by_1	2005-195T18:34:22	-00T01:20	15-Jul Fri 05:17 PM	Fri 07:39 PM	15-Jul Fri 10:17 AM	Fri 12:39 PM
UVIS_011EN_ICYMAP13_ISS	UVIS_32096	2005-195T18:34:22	-00T01:20	15-Jul Fri 05:17 PM	Fri 07:39 PM	15-Jul Fri 10:17 AM	Fri 12:39 PM
VIMS_011EN_ENCELADUS127_ISS	VIMS_18432	2005-195T18:34:22	-00T01:20	15-Jul Fri 05:17 PM	Fri 07:39 PM	15-Jul Fri 10:17 AM	Fri 12:39 PM
MAG_011EN_ENTAR002_RIDER	MAG_1976	2005-195T18:41:00	-00T01:13	15-Jul Fri 05:22 PM	Fri 07:45 PM	15-Jul Fri 10:22 AM	Fri 12:45 PM
MAG_011OT_INTFLD001_PRIME	MAG_1976	2005-195T18:41:00	-00T01:13	15-Jul Fri 05:22 PM	Fri 07:45 PM	15-Jul Fri 10:22 AM	Fri 12:45 PM
CIRS_011EN_N9COL001_ISS	CIRS_4000	2005-195T18:54:22	-00T01:00	15-Jul Fri 05:31 PM	Fri 07:57 PM	15-Jul Fri 10:31 AM	Fri 12:57 PM
ISS_011EN_MORPH001_PRIME	ISS_Phot_1_by_1	2005-195T18:54:22	-00T01:00	15-Jul Fri 05:31 PM	Fri 07:57 PM	15-Jul Fri 10:31 AM	Fri 12:57 PM
UVIS_011EN_ICYMAP14_ISS	UVIS_32096	2005-195T18:54:22	-00T01:00	15-Jul Fri 05:31 PM	Fri 07:57 PM	15-Jul Fri 10:31 AM	Fri 12:57 PM
VIMS_011EN_ENCELADUS128_ISS	VIMS_18432	2005-195T18:54:22	-00T01:00	15-Jul Fri 05:31 PM	Fri 07:57 PM	15-Jul Fri 10:31 AM	Fri 12:57 PM
INMS_011EN_ENCLOSURV001_RIDER	INMS_1498	2005-195T18:55:22	-00T00:59	15-Jul Fri 05:32 PM	Fri 07:59 PM	15-Jul Fri 10:32 AM	Fri 12:59 PM
ISS_011EN_N9COL001_PRIME	ISS_Phot_1_by_1	2005-195T19:02:22	-00T00:52	15-Jul Fri 05:39 PM	Fri 08:08 PM	15-Jul Fri 10:39 AM	Fri 01:08 PM
UVIS_011EN_ICYMAP15_ISS	UVIS_32096	2005-195T19:02:22	-00T00:52	15-Jul Fri 05:39 PM	Fri 08:08 PM	15-Jul Fri 10:39 AM	Fri 01:08 PM
MIMI_011DR_INCADUST001_PRIME	MIMI_8000	2005-195T19:05:59	-00T00:49	15-Jul Fri 05:43 PM	Fri 08:13 PM	15-Jul Fri 10:43 AM	Fri 01:13 PM
CAPS_011EN_ENCOUNTER001_RIDER	CAPS_16000	2005-195T19:25:22	-00T00:29	15-Jul Fri 06:05 PM	Fri 08:40 PM	15-Jul Fri 11:05 AM	Fri 01:40 PM
MIMI_011EN_ENCOUNTER001_ISS	MIMI_8000	2005-195T19:25:22	-00T00:29	15-Jul Fri 06:05 PM	Fri 08:40 PM	15-Jul Fri 11:05 AM	Fri 01:40 PM
RPWS_011EN_ENCA001_PRIME	RPWS_182784	2005-195T19:25:22	-00T00:29	15-Jul Fri 06:05 PM	Fri 08:40 PM	15-Jul Fri 11:05 AM	Fri 01:40 PM
1WAY_TO_2WAY_GAP_G70METNON196		P/B GAP		~5 min. Playback Gap		n/a	
				15-Jul Fri 06:51 PM		15-Jul Fri 11:51 AM	
CIRS_011EN_MORPH002_ISS	CIRS_4000	2005-195T19:26:22	-00T00:28	15-Jul Fri 07:02 PM	Fri 08:43 PM	15-Jul Fri 12:02 PM	Fri 01:43 PM
ISS_011EN_MORPH002_PRIME	ISS_Phot_1_by_1	2005-195T19:26:22	-00T00:28	15-Jul Fri 07:02 PM	Fri 08:43 PM	15-Jul Fri 12:02 PM	Fri 01:43 PM
UVIS_011EN_ICYMAP16_ISS	UVIS_32096	2005-195T19:26:22	-00T00:28	15-Jul Fri 07:02 PM	Fri 08:43 PM	15-Jul Fri 12:02 PM	Fri 01:43 PM
CDA_011OT_DRATE003_RIDER	CDA_524	2005-195T19:32:00	-00T00:22	15-Jul Fri 07:13 PM	Fri 08:55 PM	15-Jul Fri 12:13 PM	Fri 01:55 PM
CIRS_011EN_ICYEXO001_UVIS	CIRS_4000	2005-195T19:51:52	-00T00:03	15-Jul Fri 07:37 PM	Fri 09:22 PM	15-Jul Fri 12:37 PM	Fri 02:22 PM
ISS_011EN_ICYEXO001_UVIS	ISS_Phot_1_by_1	2005-195T19:51:52	-00T00:03	15-Jul Fri 07:37 PM	Fri 09:22 PM	15-Jul Fri 12:37 PM	Fri 02:22 PM
UVIS_011EN_ICYEXO001_PRIME	UVIS_32096	2005-195T19:51:52	-00T00:03	15-Jul Fri 07:37 PM	Fri 09:22 PM	15-Jul Fri 12:37 PM	Fri 02:22 PM
CDA_011EN_0400ENORX011_RIDER	CDA_524	2005-195T19:55:22	00T00:00	15-Jul Fri 07:42 PM	Fri 09:28 PM	15-Jul Fri 12:42 PM	Fri 02:28 PM

CDA_011DR_0401DUST061_RIDER	CDA_524	2005-195T20:08:24	00T00:13	15-Jul Fri 07:58 PM	Fri 09:46 PM	15-Jul Fri 12:58 PM	Fri 02:46 PM
CAPS_011SA_SURVEY002_RIDER	CAPS_16000	2005-195T20:25:22	00T00:30	15-Jul Fri 08:08 PM	Fri 09:57 PM	15-Jul Fri 01:08 PM	Fri 02:57 PM
MIMI_011DR_INCADUST002_PRIME	MIMI_8000	2005-195T20:25:22	00T00:30	15-Jul Fri 08:08 PM	Fri 09:57 PM	15-Jul Fri 01:08 PM	Fri 02:57 PM
CIRS_011EN_FP1NSSCAN020_PRIME	CIRS_4000	2005-195T20:26:30	00T00:31	15-Jul Fri 08:09 PM	Fri 09:58 PM	15-Jul Fri 01:09 PM	Fri 02:58 PM
UVIS_011EN_ICYMAP017_CIRS	UVIS_32096	2005-195T20:26:30	00T00:31	15-Jul Fri 08:09 PM	Fri 09:58 PM	15-Jul Fri 01:09 PM	Fri 02:58 PM
MIMI_011CO_SURVEY003_RIDER	MIMI_8000	2005-195T20:53:57	00T00:58	15-Jul Fri 08:15 PM	Fri 10:05 PM	15-Jul Fri 01:15 PM	Fri 03:05 PM
INMS_011SA_INMAGSURV002_RIDER	INMS_1498	2005-195T20:55:22	00T01:00	15-Jul Fri 08:15 PM	Fri 10:06 PM	15-Jul Fri 01:15 PM	Fri 03:06 PM
CIRS_011EN_NCPOL001_ISS	CIRS_4000	2005-195T21:19:22	00T01:24	15-Jul Fri 08:20 PM	Fri 10:12 PM	15-Jul Fri 01:20 PM	Fri 03:12 PM
ISS_011EN_NCPOL001_PRIME	ISS_Phot_1_by_1	2005-195T21:19:22	00T01:24	15-Jul Fri 08:20 PM	Fri 10:12 PM	15-Jul Fri 01:20 PM	Fri 03:12 PM
UVIS_011EN_ICYMAP018_ISS	UVIS_32096	2005-195T21:19:22	00T01:24	15-Jul Fri 08:20 PM	Fri 10:12 PM	15-Jul Fri 01:20 PM	Fri 03:12 PM
VIMS_011EN_ENCELADUS141_ISS	VIMS_18432	2005-195T21:19:22	00T01:24	15-Jul Fri 08:20 PM	Fri 10:12 PM	15-Jul Fri 01:20 PM	Fri 03:12 PM
CIRS_011EN_ICYLON015_UVIS	CIRS_4000	2005-195T21:29:22	00T01:34	15-Jul Fri 08:29 PM	Fri 10:23 PM	15-Jul Fri 01:29 PM	Fri 03:23 PM
UVIS_011EN_ICYLON019_PRIME	UVIS_5032	2005-195T21:29:22	00T01:34	15-Jul Fri 08:29 PM	Fri 10:23 PM	15-Jul Fri 01:29 PM	Fri 03:23 PM
CIRS_011EP_STEREO001_ISS	CIRS_4000	2005-195T21:49:22	00T01:54	15-Jul Fri 08:31 PM	Fri 10:26 PM	15-Jul Fri 01:31 PM	Fri 03:26 PM
ISS_011EP_STEREO001_PRIME	ISS_Phot_1_by_1	2005-195T21:49:22	00T01:54	15-Jul Fri 08:31 PM	Fri 10:26 PM	15-Jul Fri 01:31 PM	Fri 03:26 PM
UVIS_011EP_ICYLON001_ISS	UVIS_5032	2005-195T21:49:22	00T01:54	15-Jul Fri 08:31 PM	Fri 10:26 PM	15-Jul Fri 01:31 PM	Fri 03:26 PM
VIMS_011EP_EPIMETHE001_ISS	VIMS_18432	2005-195T21:49:22	00T01:54	15-Jul Fri 08:31 PM	Fri 10:26 PM	15-Jul Fri 01:31 PM	Fri 03:26 PM
CIRS_011RI_URSIGSGR001_UVIS	CIRS_4000	2005-195T22:36:22	00T02:41	15-Jul Fri 08:44 PM	Fri 10:43 PM	15-Jul Fri 01:44 PM	Fri 03:43 PM
UVIS_011ST_URSIGSGR001_PRIME	UVIS_32096	2005-195T22:36:22	00T02:41	15-Jul Fri 08:44 PM	Fri 10:43 PM	15-Jul Fri 01:44 PM	Fri 03:43 PM
CDA_011DR_0315SURIN005_RIDER	CDA_524	2005-195T22:49:25	00T02:54	15-Jul Fri 08:45 PM	Fri 10:45 PM	15-Jul Fri 01:45 PM	Fri 03:45 PM
CDA_011DR_0418DUST053_RIDER	CDA_524	2005-195T23:20:39	00T03:25	15-Jul Fri 08:49 PM	Fri 10:50 PM	15-Jul Fri 01:49 PM	Fri 03:50 PM
UVIS_011SU_RINGSAT001_PRIME	UVIS_32096	2005-196T00:26:22	00T04:31	15-Jul Fri 08:58 PM	Fri 11:01 PM	15-Jul Fri 01:58 PM	Fri 04:01 PM
VIMS_011RI_SOLAROCC003_UVIS	VIMS_18432	2005-196T00:26:22	00T04:31	15-Jul Fri 08:58 PM	Fri 11:01 PM	15-Jul Fri 01:58 PM	Fri 04:01 PM
RSS_011SA_THERMAL002_RSS	RSS_Activity	2005-196T01:35:00	00T05:39	15-Jul Fri 09:09 PM	Fri 11:19 PM	15-Jul Fri 02:09 PM	Fri 04:19 PM
VIMS_011SA_SOLOCC003_UVIS	VIMS_18432	2005-196T01:50:00	00T05:55	15-Jul Fri 09:11 PM	Fri 11:23 PM	15-Jul Fri 02:11 PM	Fri 04:23 PM
VIMS_011RI_HIPHASE001_PRIME	VIMS_18432	2005-196T02:03:22	00T06:08	15-Jul Fri 09:14 PM	Fri 11:29 PM	15-Jul Fri 02:14 PM	Fri 04:29 PM
MAG_011OT_SURVEY006_PRIME	MAG_1976	2005-196T02:15:00	00T06:20	15-Jul Fri 09:15 PM	Fri 11:31 PM	15-Jul Fri 02:15 PM	Fri 04:31 PM
CIRS_011SA_OCCLIMB008_SI	ISS_SUPPORT_IMAGING	2005-196T02:32:23	00T06:37	15-Jul Fri 09:16 PM	Fri 11:33 PM	15-Jul Fri 02:16 PM	Fri 04:33 PM
CIRS_011SA_OCCLIMB008_VIMS	CIRS_4000	2005-196T02:32:23	00T06:37	15-Jul Fri 09:16 PM	Fri 11:33 PM	15-Jul Fri 02:16 PM	Fri 04:33 PM
RSS_011SA_OCC004_PRIME	RSS_Activity	2005-196T03:46:22	00T07:51	15-Jul Fri 09:22 PM	Fri 11:41 PM	15-Jul Fri 02:22 PM	Fri 04:41 PM
RSS_011RI_OCC004_PRIME	RSS_Activity	2005-196T04:31:01	00T08:36	15-Jul Fri 09:23 PM	Fri 11:43 PM	15-Jul Fri 02:23 PM	Fri 04:43 PM
RSS_011SA_KADOWN002_RSS	RSS_Activity	2005-196T04:45:00	00T08:49	15-Jul Fri 09:24 PM	Fri 11:43 PM	15-Jul Fri 02:24 PM	Fri 04:43 PM
CDA_011DR_0615SURIN008_RIDER	CDA_524	2005-196T06:35:26	00T10:40	15-Jul Fri 09:29 PM	Fri 11:49 PM	15-Jul Fri 02:29 PM	Fri 04:49 PM
UVIS_011SW_IPHSURVEY019_RIDER	UVIS_5032	2005-196T06:40:00	00T10:45	15-Jul Fri 09:29 PM	Fri 11:49 PM	15-Jul Fri 02:29 PM	Fri 04:49 PM
CDA_011DR_0716DUST054_RIDER	CDA_524	2005-196T07:16:26	00T11:21	15-Jul Fri 06:07 PM	Fri 06:07 PM	15-Jul Fri 11:07 AM	Fri 11:07 AM
CDA_011DR_0815SURVY005_RIDER	CDA_524	2005-196T08:20:00	00T12:24	15-Jul Fri 06:10 PM	Fri 06:10 PM	15-Jul Fri 11:10 AM	Fri 11:10 AM
CDA_011DR_0811DUST055_RIDER	CDA_524	2005-196T09:41:00	00T13:46	15-Jul Fri 06:14 PM	Fri 06:15 PM	15-Jul Fri 11:14 AM	Fri 11:15 AM
INMS_011SA_SURVEY007_RIDER	INMS_1498	2005-196T09:55:56	00T14:00	15-Jul Fri 06:15 PM	Fri 06:15 PM	15-Jul Fri 11:15 AM	Fri 11:15 AM
CIRS_011SA_NADIROCC002_PRIME	CIRS_4000	2005-196T10:00:00	00T14:04	15-Jul Fri 06:15 PM	Fri 06:16 PM	15-Jul Fri 11:15 AM	Fri 11:16 AM
CIRS_011SA_LTNING001_RIDER	CIRS_4000	2005-196T13:20:00	00T17:25	15-Jul Fri 06:29 PM	Fri 06:33 PM	15-Jul Fri 11:29 AM	Fri 11:33 AM
VIMS_011SA_LIGHTNING003_PRIME	VIMS_18432	2005-196T13:20:00	00T17:25	15-Jul Fri 06:29 PM	Fri 06:33 PM	15-Jul Fri 11:29 AM	Fri 11:33 AM
CDA_011DR_1010SUOUT005_RIDER	CDA_524	2005-196T14:20:00	00T18:24	15-Jul Fri 06:48 PM	Fri 07:17 PM	15-Jul Fri 11:48 AM	Fri 12:17 PM
RSS_011EA_SCECORONA001_RSS	RSS_Activity	2005-196T14:30:00	00T18:34	15-Jul Fri 06:49 PM	Fri 07:18 PM	15-Jul Fri 11:49 AM	Fri 12:18 PM

Last Updated: July 11, 2005 - Subject to change.

Orbiter UTC is the actual time of the spacecraft event.

Ground UTC is the time when the signal reaches Earth.